ABSTRACT OF THE DISCLOSURE

The present invention demonstrates that parathyroid hormone 1-34 [hPTH(1-34)] exerts anti-apoptotic effects 5 on osteoblasts when administered in an intermittent fashion to mice in vivo. The present invention further demonstrates that bovine PTH(1-34) [bPTH(1-34)] prevents glucocorticoid-induced apoptosis of osteoblastic and osteocytic cells in vitro. Therefore, the present invention demonstrates that the previously established anabolic. effects of PTH on the skeleton are mediated by its ability to postpone 10 osteoblast apoptosis, as opposed to a stimulatory effect The present invention provides methods osteoblastogenesis. screening agents for anti-apoptotic effects on osteoblasts, wherein such agents stimulate and/or restore bone in osteopenic individuals, or prevent bone loss caused by agents such as glucocorticoids. 15